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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/996,342	11/21/2001	Tohmas Eugene Waschura	WASC1821	1977

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EXAMINER

LAU, TUNG S

ART UNIT	PAPER NUMBER
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2863

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/996,342

Applicant(s)

WASCHURA ET AL.

Examiner

Tung S Lau

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims -1, 7, 8,-9, 15, 16, 2, 3, 4, 5, 6, 10-14 are rejected under 35 U.S.C. 102(a) as being anticipated by Thomas Eugene, James Roger, Robert Lee (EP 1143654).

Regarding claim 1:

Thomas Eugene, James Roger, Robert Lee disclose apparatus for measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator (abstract, fig. 2, unit 203, 200), and logic means for accumulating event counts of the bit stream pulses falling within points inside the window comparator during durations of the binary pulse bit stream and drawing eye diagrams therefrom defining the bit stream characteristics (fig. 2, unit 200, 203, 20, 3).

Regarding claim 7:

Thomas Eugene, James Roger, Robert Lee disclose apparatus for measuring characteristics of a bit stream of binary pulses comprising control means for defining a window comparator of an array of columns and rows defining points for

accumulating voltage counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream (abstract, fig. 2, unit 203, 200), and apparatus for creating a voltage threshold window that moves between minimum and a maximum voltage levels with each row of the array and for accumulating counts of voltage levels of the binary pulses occurring at the time offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated time and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

Regarding claim 8:

Thomas Eugene, James Roger, Robert Lee disclose apparatus for measuring characteristics of a bit stream of binary pulses comprising first control means for defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream, second control means for creating a voltage threshold window that moves between a minimum and maximum voltage threshold with each row of the array, logic means for detecting voltage levels of the binary pulses occurring at time offsets of the bit stream when the pulse voltage levels are within the voltage threshold at each row and column point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), first counter means for accumulating counts of the detected binary pulse voltage levels at time offsets

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during each defined duration time of the binary pulse bit stream in a column and row point of the array (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6), second counter means for determining duration of periods of the binary bit stream in which to accumulate the detected binary pulse voltage levels at each point of ; the array, and monitor apparatus for displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

Regarding claim 9:

Thomas Eugene, James Roger, Robert Lee disclose a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator, and accumulating event counts of the bit stream pulses at time offsets during defined duration times of the binary pulse bit stream at points inside the window comparator and drawing an eye diagram therefrom defining the bit stream pulse characteristics (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

Regarding claim 15:

Thomas Eugene, James Roger, Robert Lee disclose a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for accumulating event counts of the binary pulse bit stream at time offsets during defined durations of the binary pulse bit stream creating a voltage threshold

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window that moves between a minimum voltage and a maximum voltage at each row of the array and accumulating counts of voltage levels of the binary pulses occurring at time

offsets of the bit stream during a duration time when the pulse voltage levels are within the voltage threshold window at each row and column point of the array and displaying the array column and row points of the accumulated event counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 3, unit 21119-21118, fig. 4; unit 21121-21127, fig. 5, 6).

Regarding claim 16:

Thomas Eugene, James Roger, Robert Lee disclose a method for determining characteristics of a bit stream of binary pulses comprising the steps of defining a window comparator of an array of columns and rows defining points for accumulating event counts at time offsets during defined duration times of the binary pulse bit stream creating a voltage threshold window that moves between defined voltage levels at each row of the array detecting voltage levels of the binary pulses occurring at the time of the bit stream when the pulse voltage levels are within the voltage threshold window at each row and column point of the array accumulating counts of the detected binary pulse voltage levels at the time offsets in a column and row point of the array and displaying the array column and row points of the accumulated time and voltage counts as an eye diagram defining characteristics of the bit stream of binary pulses (fig. 2, 203, 200, 214, 3, fig. 3, unit 21113-21117, fig. 5, 6).

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Regarding claims 2, 3, 4, 5, 6, 10-14:


Thomas Eugene, James Roger, Robert Lee disclose the level of voltage is programmable of the array (fig. 3, unit 21110-21118, fig. 4, unit 21120-21127); using threshold voltage windows (fig. 3, unit 21110-21118, fig. 4, unit 21120-21127); using counter means for the stream (fig. 2, unit 203, 211; fig. 3, unit 21110-21118, fig. 4, unit 21120-21127); displaying array (fig. 2, unit 3, fig. 5, 6), accumulating counts, offset value (fig. 2, unit 3, fig. 5, 6, fig. 3, unit 21110-21118, fig. 4, unit 21120-21127).

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274.

The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5841 for Official RightFAX, for regular communications and 703-308-5841 for After Final communications. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956. TC2800 FAX

Telephone Numbers: 703-872-9306

TC2800 Customer Service FAX - (703) 872-9317


John Barlow
Supervisor
Examiner
TC2800

TL